

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (Currently amended) A blast protective barrier system definable in terms of an x,y,z coordinate system, comprising:

(a) a plurality of substantially ground level (xy plane) pile caps, each comprising an x-axis elongate length, a y-axis width, and a z-axis height, said x-axis length substantially defining the width of said system, each ~~end~~ pile cap further including upper and lower xy plane surfaces, each of said upper surfaces including y-axis channels and each of said lower surfaces including multiple substantially z-axis recesses, said pile caps substantially symmetrical about a xz plane;

(b) a plurality of opposing pairs of yz plane, y-axis elongate vertical concrete panels having an x-axis ~~with~~ width, each panel pair having a lower y-axis ~~edge proportioned for securement~~ end disposed within said y-axis channels of said upper xy surfaces of said pile caps;

(c) high shock absorbent material disposed between each pair of said concrete panel panels; and

(d) a plurality of z-axis elongate piles, ~~each having z-axis upper ends proportioned for press-fittable insertion into~~ each of said piles being disposed underground with a z-axis upper end inserted into one of said substantially z-axis recesses of said lower xy plane surfaces of said pile caps.

2.(Original) The system as recited in Claim 1, in which, within an xy plane cross-section of each said pile cap and panel, an x-axis pile cap dimension to separation between opposing panel surfaces defines a ratio in a range of about 2.5:1 to about 5:1.

3. (Currently amended) The system as recited in Claim 2, in which said ratio is preferably about 3.5:1.

4. (Original) The system as recited in Claim 1, in which, in a xz plane through each panel pair and of said volume of shock absorbent material, a total aggregate x-axis dimension of outer yz surfaces of said panel to said material comprises an x-axis range of about 1.5:1 to about 2.5:1.

5. (Original) The system as recited in Claim 4, in which, in a xz plane of each panel pair and said volume of shock absorbent material, a total aggregate x-axis dimension of outer yz surfaces of said panels to said compacted shock absorbent material preferably comprises a ratio of about 2:1.

6. (Original) The system as recited in Claim 1 in which each panel of said panel pairs are of like x-axis width.

7. (Original) The system as recited in Claim 6, in which a ratio of said x-axis volume of shock absorbent material to an x-axis dimension of each panel is in a range of about 3:1 to about 2:1.

8. (Original) The system as recited in Claim 7, in which an x-axis length of said volume of shock absorbent material to an x-axis dimension of each of said panels defines a ratio of about 2.3:1.

9. (Currently amended) The system as recited in Claim ~~[[7]]~~ 6, in which a z-axis depth of lower ends of said panels within said y-axis channels of said pile caps to said entire z-axis length thereof comprises a ratio in a range of about 0.05 to about 0.15.

10. (Original) The system as recited in Claim 9, in which a z-axis depth of lower ends of said panels within said channels of said pile caps to said entire z-axis length of each panel defines a ratio of about 0.07.

11. (Currently amended) The system as recited in Claim ~~[[7]]~~ 1, in which said piles define an in-ground length in a range of about 10 to about 50 feet.

12. (Original) The system as recited in Claim 11, in which each pile cap defines an x-axis length in a range of about 10 to about 20 feet.

13. (Original) The system as recited in Claim 12, in which each panel is reinforced using vertical and horizontal rebars.

14. (Original) The system as recited in Claim 13, in which said horizontal rebars project in a xy plane beyond concrete xz end surfaces of said panels.

15. (Original) The system as recited in Claim 14, further comprising:
panel joining z-axis elongate columns positioned between opposing xy plane end faces of groups of panel pairs and pile caps, including concrete port, in a z-axis direction, to envelope said projecting rebars of said respective pairs of said panels, thereby sealing opposing groups of panels at a desired angulation therebetween.

16. (Currently amended) The system as recited in Claim ~~[[11]]~~ 15, in which a ratio of ~~pile cap~~ column x-axis length to y-axis width comprises a range of between about 3.5:1 and about 2.2:1.

17. Canceled

18. (Currently amended) The system as recited in Claim ~~[[15]]~~ 6, in which a z-axis height of each panel is in a range of about 8 to about 15 feet.

19. (Currently amended) The system as recited in Claim ~~[[15]]~~6, in which a ratio of z-axis height of each panel to a x-axis length of each pile cap comprises a range of between about 0.7:1 and about 1.2:1.

20. (Currently amended) The system as recited in Claim ~~[[15]]~~19, in which a ratio of z-axis height of each panel to a x-axis length of each pile cap is preferably about 0.9:1.

21. (Currently amended) The system as recited in Claim 1, in which said recesses within said lower surfaces of pile caps comprise three recesses, each defining a different axis relative to a central xz plane of each pile cap, in which:

(a) one pile is co-linear with a z-axis center of said xz plane of symmetry of each pile cap; and

(b) substantially z-axis left and right recesses within lower surfaces of said ~~end~~ pile cap are equally offset from a central recess and define respective angles in a range of about 10 to about 30 degree relative to said z-axis of said ~~end~~ pile cap along said xz plane of symmetry thereof.